

PUBLIC INFORMATION MEETING

# Roadway Infrastructure Improvements



November 16, 2015



**HOWARD STEIN HUDSON**

Engineers + Planners

# Agenda

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- **General Project Information**
- **Intersection Improvements**
- **Corridor Improvements**
- **Water Main**
- **Right of Way Process**
- **Next Steps**



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# Improvement Locations

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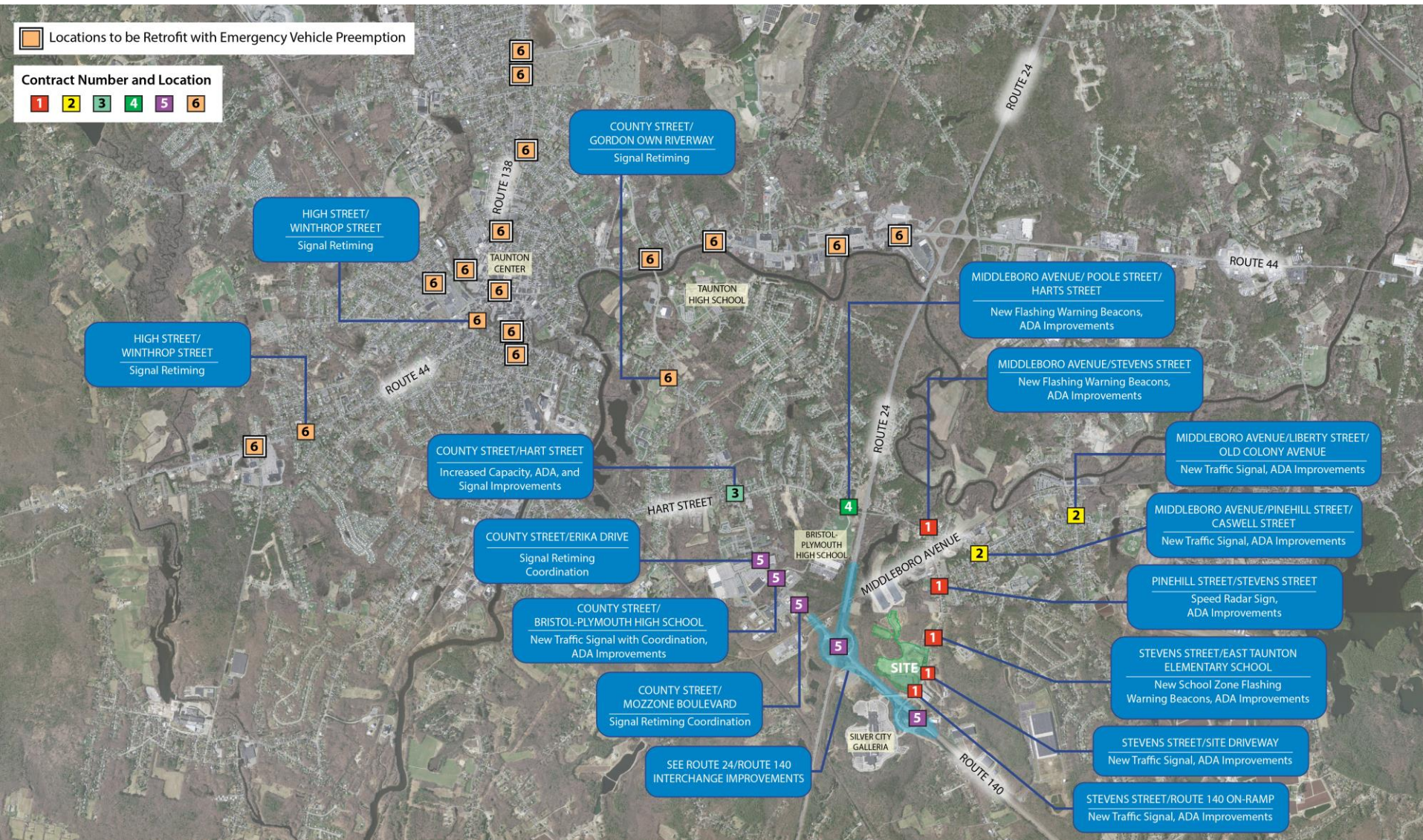
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- **Hart's Four Corners**
- **Middleboro Avenue and Pinehill Street**
- **Middleboro Avenue, Old Colony Avenue, and Liberty Street**
- **Stevens Street from Route 140 to Middleboro Avenue**
  - Stevens Street at East Taunton Elementary School
  - Stevens Street and Pinehill Street
  - Stevens Street and Middleboro Ave
- **Bristol-Plymouth Regional High School entrances at Hart Street and at Route 140**
- **Route 140 from Stevens Street to Bristol-Plymouth Regional High School**
- **Route 140 and Route 24 Interchange**
- **Emergency Vehicle Pre-emption**



# Improvement Locations

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# Hart's Four Corners

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## ■ Existing Issues

- Intersection Geometry
- Traffic Congestion
- Pedestrian/Bicycle Access
- Traffic Signal Timing
- Top Crash Location: #27 in State and #8 in MassDOT District 5

## ■ Proposed Improvements

- Roadway Widening of Hart Street and County Street
- ADA Improvements
- Signal Timing and Phasing Improvements
- Improved Bicycle Accommodations



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# Hart's Four Corners: EXISTING CONDITIONS

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# Hart's Four Corners: PROPOSED CONDITIONS

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# Middleboro Avenue and Pinehill Street

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## ■ Existing Issues

- High Speeds
- Pedestrian Access
- 3-way Stop

## ■ Proposed Improvements

- Fully Actuated Traffic Control at Intersection
- ADA Accommodations and Crosswalks
- Heavy Vehicle Exclusion Signs on Pinehill Street



# Middleboro Avenue and Pinehill Street: EXISTING CONDITIONS

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Not to  
scale.

# Middleboro Avenue and Pinehill Street: PROPOSED CONDITIONS

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# Middleboro Avenue, Old Colony Avenue, and Liberty Street

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## ■ Existing Issues

- High Speeds
- Traffic Congestion
- Offset Roadway Alignment
- Pedestrian Access

## ■ Proposed Improvements

- Fully Actuated Traffic Control at the Intersection
- Reduced Vehicular Conflicts
- Geometric Improvements
- ADA Accommodations, Sidewalks, and Crosswalks
- Reduced Pedestrian Conflicts



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# Middleboro Avenue, Old Colony Avenue, and Liberty Street: EXISTING CONDITIONS

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# Middleboro Avenue, Old Colony Avenue, and Liberty Street: PROPOSED CONDITIONS

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Not to  
scale.

# Stevens Street from Route 140 to Middleboro Avenue

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## ■ Existing Issues

- Intersection Geometry
- Traffic Congestion
- Signal Timing
- Pedestrian Access
- Roadway Capacity Unsuitable for Future Development

## ■ Proposed Improvements

- Mitigation and Safety Improvements for Future Development
- Updated Signal at Route 140 and Stevens Street
- Signalize Intersection of Stevens Street and Revolutionary Drive
- Secondary Service Road 700' North of Revolutionary Drive
- ADA Accommodations, Sidewalks, and Crosswalks
- Widening to Accommodate Future Volumes and Turning Movements
- Improved Roadway Lighting and Undergrounding of Utilities



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# Stevens Street from Route 140 to Middleboro Avenue: EXISTING CONDITIONS

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# Stevens Street from Route 140 to Middleboro Avenue: PROPOSED CONDITIONS

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# Stevens Street and East Taunton Elementary School Driveway

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## ■ Existing Issues

- Neighborhood Cut-through
- Pedestrian Access

## ■ Proposed Improvements

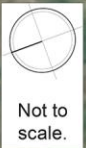
- Traffic Calming
- School Zone Flashing Warning Devices on Each Approach
- ADA Accommodations and Sidewalks
- Signing and Pavement Markings



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# Stevens Street and East Taunton Elementary School Driveway: EXISTING CONDITIONS

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Not to  
scale.

# Stevens Street and East Taunton Elementary School Driveway: PROPOSED CONDITIONS

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## Proposed Improvements

- School Zone flashing warning devices on each approach to the driveway
- ADA accommodations and sidewalks
- Signing and pavement markings

# Stevens Street and Pinehill Street

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## ■ Existing Issues

- Neighborhood Cut-through
- Pedestrian Access

## ■ Proposed Improvements

- Traffic Calming
- Radar Speed Control Signs in Advance of Pinehill Street
- Heavy Vehicle Exclusion on Pinehill Street
- ADA Improvements



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# Stevens Street and Pinehill Street: EXISTING CONDITIONS

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Not to  
scale.

# Stevens Street and Pinehill Street: PROPOSED CONDITIONS

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# Stevens Street and Middleboro Avenue

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## ■ Existing Issues

- High Speeds
- Pedestrian Access

## ■ Proposed Improvements

- Traffic Calming
- Flashing Warning Beacon
- ADA Accommodations
- Sidewalk Widening and Installation of Crosswalk Markings



# Stevens Street and Middleboro Avenue: EXISTING CONDITIONS

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Not to  
scale.

# Stevens Street and Middleboro Avenue: PROPOSED CONDITIONS

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# Bristol-Plymouth Regional High School Driveway at Hart Street

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## ■ Existing Issues

- High Speeds
- Offset Roadway Alignment
- Pedestrian Access

## ■ Proposed Improvements

- Traffic Calming
- Realignment of Bristol-Plymouth High School Driveway to Align with Poole Street
- ADA Accommodations
- Provide Flashing Warning Beacon on Hart Street



# Bristol-Plymouth Regional High School

## Driveway at Hart Street: EXISTING CONDITIONS

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# Bristol-Plymouth Regional High School

## Driveway at Hart Street: PROPOSED CONDITIONS

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# Bristol-Plymouth Regional High School Driveway at Route 140

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## ■ Existing Issues

- Intersection Geometry
- Traffic Congestion
- Pedestrian Access
- Signal Timing
- Lack of Signalized Intersection

## ■ Proposed Improvements

- Realignment of Bristol-Plymouth High School/  
MassDOT Driveway to Align with Hess Gas  
Station Driveway
- ADA Accommodations
- New Traffic Signal



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# Bristol-Plymouth Regional High School Driveway at Route 140: EXISTING CONDITIONS

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# Bristol-Plymouth Regional High School

## Driveway at Route 140: PROPOSED CONDITIONS

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# Route 140 and Route 24 Interchange

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## ■ Proposed Improvements

- Route 140 will be Widened from 2 lanes to 3 near the Approach to the Route 24 On-ramp
- Approach to the Route 24 NB Ramp will be Widened to Allow for a Double Right Turn to the Ramp

## ■ Galleria Mall Drive/County Street/ Route 140 SB Improvements

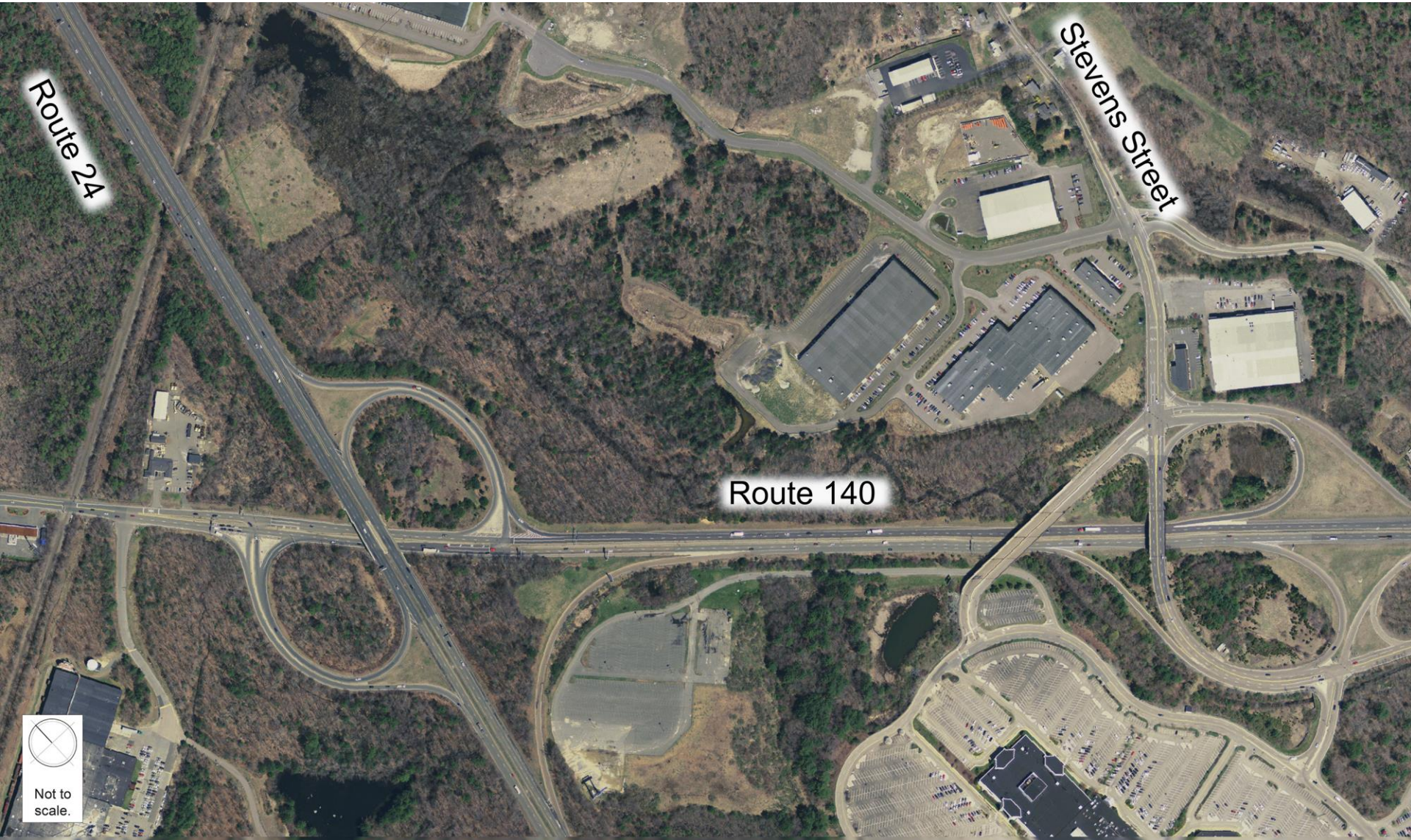
- Stevens Street Overpass Bridge Restriping
- Updated Traffic Signal Equipment



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# Route 140 and Route 24 Interchange: EXISTING CONDITIONS

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Not to  
scale.

# Route 140 and Route 24 Interchange: PROPOSED CONDITIONS

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# Traffic Signal Improvements

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- **Signal Timing Coordination**
- **County Street/Gordon Owen Riverway**
  - Adjusting Phase Splits
- **County Street/Erika Drive**
  - Updated Signal Cycle Length and Phasing Splits
- **County Street/Mozzone Boulevard**
  - Add Short Leading NB Phase to Allow Protected and Permissive Left Turns
  - Restriping NB Lanes to Have Left Turn Only Lane
- **Emergency Vehicle Pre-emption**
  - 17 Existing Signals Outfitted with Emergency Vehicle Priority Equipment
  - Allow Rapid Response from Firehouse to Casino Site
  - Up to 10 Emergency Response Vehicles Outfitted with Emitters to Trigger Emergency Vehicle Equipment



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# Water Main: EXISTING CONDITIONS

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# Water Main: PROPOSED CONDITIONS

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# Right of Way

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## ■ Right of Way

- Publicly-owned Area Reserved for Transportation Purposes
- Adjacent Land from Private Owners may be Required to Construct or Reconstruct Sidewalks, Roadways, or Bridges

## ■ Easements

- Right of the City to Use All or Part of a Property for a Specific Transportation Purpose
- Can be Permanent or Temporary



# Right of Way

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## ■ Fee Interest

- The City Becomes the Owner of the Property Acquired
- No Fee Interests will be Acquired for This Project

## ■ Eminent Domain

- The Right of the City to Take Private Property for Public Use, including Transportation Purposes, So Long as Fair and Just Compensation is Paid for the Property Interest Acquired



# Next Steps

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- **Follow up discussion**
  - Now until 8:30 PM
- **Next Meeting**
  - Date & Time

